

Art Unit: ***

CLMPTO

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PB

Claims 1-92 Cancelled

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93. A wireless laser bar code symbol reading system, comprising:

a wireless hand-supportable bar code symbol reader in two-way RF communication with a base station operably connected to a host system, by way of an RF-based wireless data communication link over which two-way communication of data packets can occur in a reliable manner,

wherein said wireless hand-supportable bar code reader has an operational mode and a sleep mode, and further includes

(1) a hand-supportable housing;

(2) a laser-scanning bar code symbol reading mechanism, including a laser diode source, disposed in said hand-supportable housing, for automatically producing a visible laser scanning pattern, reading a bar code symbol on an object using said visible laser scanning pattern, and producing a symbol character data string representative of said read bar code symbol;

(3) a first RF-based transceiver circuit, disposed in said hand-supportable housing, for transmitting data packets corresponding to said produced symbol character data string, over said RF-based wireless data communication link, to said base station for subsequent transmission to said host system;

(4) a battery device for producing a voltage for use in driving electrical components contained within said hand-supportable housing;

(5) a low battery condition detection circuit disposed within said hand-supportable housing, for automatically monitoring the voltage state of said battery device and generating a control signal upon automatic detection of a low voltage state in said battery device;

(6) a low battery-voltage alarm device disposed within said hand-supportable housing, for producing a low-voltage alarm signal in response to the generation of said control signal; and

(7) a device controller, disposed within said hand-supportable housing, for automatically driving said wireless hand-supportable bar code reader into said operational state by activating said laser scanning bar code symbol reading mechanism and said first RF-based transceiver circuit when not receiving said control signal, and for automatically driving said wireless hand-supportable bar code reader into said sleep state by deactivating said laser diode and said first RF transceiver circuit when receiving said control signal.

94. The wireless laser scanning bar code symbol reading system of claim 93, wherein said base station includes

(1) a base station housing, and

(2) a second RF-based transceiver circuit, disposed within said base station housing, for receiving the data packets corresponding to said symbol character data string transmitted over said RF-based wireless data communication link, from said first RF-based transceiver circuit.